Attachment #7
SUBJECT: Contract - Progress Review Meeting - 17, 18 Mar 65 - PAR 214, RT-12 and PAR 215, RT-24 Processors
l. Revised preliminary installation engineering sheets (origin-
ally submitted 11 Nov 64) were given to Revision date 16 Mar 65.
2. The customer's plan engineers were concerned because they
could not establish a heat balance on the equipment based on total power in
put versus total radiated heat and heat removed with exhausted drying air.
It was pointed out to that heat is being added to the systems by
hot water used to maintain chemical and wash water temperatures as well as
by electric power and also that heat was removed with wash water discharged
to the sewer.
3. It was also pointed out that air discharged from the dryer
was at approximately 45% RH not at the saturated condition considered by
their engineers.
relayed this information by telephone to
of their engineering department and asked to confirm the in-
formation during his conversation. This was done.
5. On Thursday, 18 Mar 65, visited the contractor's
shops to see the equipment being assembled. All modules of the RT-24 were
in a state of complete assembly and were aligned with the feed stand and
air dryer to convey a general conception of the completed machine. No
completed racks were available for installation; however, the drive
system was operable and was demonstrated.

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Excheled from entomatic
dewagrading and
declassification

SECRET

23 Mar of	
6. The pump stand was in position behind the wet section of the	
machine and piping was partially completed. The auxiliary drum dryer was	
assembled but not completely piped.	
7. During the meeting on Wednesday 17 Mar,indicated	25X1
his desire to take pictures of the partially completed equipment. Contrac-	
tor provide a set of Polaroid pictures of the RT-24 Processor.	
8. After a thorough examination of the equipment, re-	25X1
marked that he had no complaints other than the non-safelight indicator lamps.	
9informed the contractor that the following GSA per-	
sonnel would be involved with the RT-12 and RT-24 processor installations:	
ACTION ITEM	

CROUP 1 Excluded from eulomatic dewograding and declassification

10. None.

25X1

25X1

SECRET

Attachment #7

25X1

Heat loads imposed on the air conditioning system by the RT-12-R and RT-24 processors. All figures are maximum values and are broken into Wet-Room and Dry-Room loads.

		RT-12-R	<u>RT-24</u>	
Wet-Room	f Fumps	13,500 Btu/hr	<i>i Pro- e</i> 8,000 Btu/hr	
Dry-Room	·	9,000 Btu/hr	37,250 Btu/hr	divine to

#### Air Discharged from Dryers

	<u>RT-12-R</u>	RT-24
SCFM	55	34°
Temperature	140°F	160°F

MAX DRYING LOAD:

1. DOUBLE WELL OF PAPER 20" WIDE PROCESSED

AT 8 FT/MIN 0.031 THATER/ET

20 Ft x 8 Ft x 0.031 # = . .381 HATTE / MATER / MATER

2. DETER DESIGN CIRCULATION PLOTE

3. MOISTURE PORTUR HEAT BALANCE LATENT HEAT EVAPORATION WATER & MOISSON WILLS

- X TEMPERATURE DROP OF DEVING AIR.

1000 BTU , 0,381# = 0.24 Bto x 2500 FYE I # AT

AT 1000/8/0 2138/ X 1 (1/195) X 1 MIN X 16.25 FT 3

= 11.25 °F

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4. DESIGN CONDITIONS OF DRYEE REQUIRE

DRYING COEFFICIENT OF 1/2#/(HR)(100FT OFFICHUM) (°FWOD)

AREA OF DRYING PLENUME 28.9 FT2

W # = 1.5 X 25.9 FTY & FWBD

HK (HR)(100ETZ)(OWBD) 100

W=0.381 : 60MIN = 22.8#/HE

WBO = 22.05 x 1 (HR) (100 Fm) ( WBO) x 100

= 525°F

5. FROM PSYC CHART!

AIR HEATED TO 160°F DB-127°FN/8

WBD = 168-107°

= 53°F

VBD = VBT BOL B DEFE BOUNDS OF STREET BOUNDS OF STREET

MOISTURE PICK UP: 70°F 50% RH AIR IN = 26 BTU/= ; 709RANDE/E 1490F 28% NH AIR OUT = 81 BTU/= ; 300GRANNS/00 300 GRAINS /# 70 GRAINS/= MOISTURE PICK UP MOISTURE LOAD: 0,381 #/MIN X 7000 GENINO/# = 2760 Ground from MAKE UP ALL KEOD 2760 G/200 = 11.5 t/ 1000 11.5 7 20 16.25 Fre / = 185 Fre /1911 HEAT LOD:

81 BTU/# . - Z6 BTU/# HEAT /NPUT

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Wet room - 8000 btu/hm

Dry Boom - 37, 250 Stuffer given off; to be taken given off; to be taken up up by room arroandition's by room arroanding y

Elect input: 22,000 Watts. 1 36,000

22,000 w = 74,800 stus /hr Checks with statement that machine hear output 15 75,000 Stuffer.

340 Scfm@ 160°F = 14.7 lbs air @ 376.3 bto x 60 min = 332,000 670/br (1858 cirthaloy of rooms

11.7/2 VY

Probleminary

### INSTALLATION ENGINEERING

### As of 3/16/65

c.	Manufacture	<b>10</b>		c Processo					
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PH	YSICAL FRATU	rues							
A.	Mumber of	Componen	t Parts	20					
B.		of the	Largest	Component	Part:				-
	Length			In.	Height		Ft.	60	1
	Width	Ft.	48	In.	-				
c.	Weight of	argest.	Compone	nt. Part.	700 (Cr	ted)			
D.	Total Weigh	ht of In	strumen	t 7000	Install	d - Eng	ty		
E.	Overall Dir	mensions	Assemb	led:					
	Length 10	Ft.		In.	Height	7	Ft.	8	_ 1
	Width	Ft.		In. '					
F.									
	Flat X	Three	Point	Suspension		Four Po:	Int Sus	spensio	n
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B.	Air Conditioning:		
	Room temperature 70°F	Humidity	50% RH
	Output of InstrumentSee Note	BTU/Hr.	The state of the s
	If air must be filtered, what is n	maximum permiss	ible particle size
	in microns? Not Required		
	particles per cubic foot.		
	Direct connection to instrument?	Yes	No x
	If yes to above, what is the desi	ired air temper	ature to instrument?
	From Dryer - 218	8	at <b>28%</b> RH
	Should discharged air be ducted se	eparately?	
	Is discharged air noxious? No		toxic? No
	Connector size to instrument 6"		
C.			
	Is water required for the instrume		
	Water pressure 30 PSIG	Flow in	GPM 10
	Type of water desired:	_	
	130 °F +	10 °F	
	TEMERET Chilled 50 °F +	5 °F	
	Deionized None OF +	$\circ_{\mathbf{F}}$	
	Type of water desired:  THE Hot 130 OF +  THENTIFICATION OF +  Deionized None OF +  Filtered 130 & 50 OF +	10 °F Part	icle size and count per
	unit volume. 10 <b>u</b>		
	Type of pipe required:		
	Galvanized	Copper X	(For Water)
	Stainless Steel or	Plastic Fo	r Chemicals
	Is floor drain required?	Yes	X No rain 14% Silicon Iron
	Diameter of drain 4"	Galvanized d	rain 14% Silicon Iron
	Plastic drain	Glass drain	
			•
D.			
	Diameter of connectors 1/2" IPS	Type of conn	ectors Screwed
	PSI 25 Max	Water free?	Yes
	CFM 5	Oil free?	Yes (Instrument Air)
E.	Vacuum:		
c.	,	¥	N
	Is vacuum required? Vacuum required	res	NO X
	meters) of Hq	Pola or	(inches) (milli-
		CLEAN	
	Displacement	CFM	The second secon
REM	ARKS		

#### IV.

In the event additional space is required for environmental conditions or utilities not mentioned above, use the reverse side of this form.

Note: Heat output of instrument

Wet Room 8,000 BTU/Hr Dry Room 37,500 BTU/Hr

# As Of 11/18/64

	A. B.	Manufacturer	
		Contract Number	
Ľ.	PHY	YSICAL FEATURES	
	Α.	Number of Component Parts 20	
	В.		
		LengthFt. 36 In. HeightFt. 60	In.
	_	Width Ft. 48 In.	
	С.	O	
	D.	Total Weight of Instrument	
	E.	Overall Dimensions Assembled:	<b>-</b>
		Length 16 Ft. In. Height 7 Ft. 8	ın.
	F.	Width 5 Ft. In. Type of Base of Mount:	
	г.		
	G.	Flat X Three Point Suspension Four Point Suspension Does Instrument have built-in mobility? No	
		Des institutent have built-in mobility: No	
		le the instrument portioularly consitive to withoution?	
	H.	,	
	n. I.	Are any special or unusual tools or fixtures necessary or advisea	ble
			ble
		Are any special or unusual tools or fixtures necessary or advisea	ble
		Are any special or unusual tools or fixtures necessary or advisea	ble
-т	I.	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment? No	ble
II.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  TILITIES	ble
I.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  AC  DC	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  Voltage  AC  DC  Voltage  AC  Volts	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  Voltage Current  AC  208 Volts + Volts  Current  100 Amps	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  Voltage  Current  Frequency  AC  DC  208 Volts + Volts  100 Amps  Frequency	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  AC  DC  DC  Volts  AC  DC  DC  Amps  Go cps  Amps  Frequency  Nr. of phases	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  FILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  Nr. of wires  AC  208 Volts + Volts  100 Amps  60 cps  Nr. of wires	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  PILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  Nr. of wires  Power required by	ble
ī.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  PILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  Nr. of wires  Power required by	ble
II.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?    No	ble
II.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  PILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  Nr. of wires  Power required by	ble
II.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?  No  PILITIES  Electrical:  Voltage  Current  Frequency  Nr. of phases  Nr. of wires  Power required by  equipment  Type of outlet required: Two Prong  Twist Lock  Type of outlet required: Two Prong  Twist Lock  Type of No wines  Type of outlet required: Two Prong  Twist Lock  Type of No wines  Type of outlet required: Two Prong  Three Prong  Three Prong	ble
II.	I. UT	Are any special or unusual tools or fixtures necessary or advisea for the installation or maintenance of this equipment?    No	ble

_	N. Gamditioning				
В.	Air Conditioning: Room temperature	70 917	Humidity	50 <b>%</b> RH	
	Room temperature Output of Instrument	00 F	RTII/Hr		
	Output of Instrument	trhot is in	DIO/III.	ssible particl	e size
	If air must be filtered,	where is the	What permi	sale count?	C <b>D1</b> D3
	in microns? Not requir	ed	what part	TCTE COUITO.	
	narticles her cubic 100	Շ• /			
	Direct connection to ins	trument?	ies	NO	taument?
	If yes to above, what i	s the desi	red air temp	erature to ins	crumeno:
			nametalar?	You / from Dwg	
	Should discharged air be			toxic?	NO
	Is discharged air noxiou	s?	<u> </u>	COXIC:	110
(	Connector size to instrum	ent <u>6</u>	<b>N</b>		
	A Company of the Comp				
c.	Plumbing:			31	
	Is water required for th	e Matrume	ent? Yes _	X NO 30	
/	Water pressure 30 PSIG	3\	Flow	in GPM 10	
	Type of water desired:	, ·	0		
- [	Ter Hot 130 OF	+	<b>10</b> °F		
1	ThemsenedChilled on OF	#	5_°F		
À	Deionized None OF	F	$\circ_{\mathbf{F}}$		
•	Filtered 1300 & 50 OF	<del> </del>	10 °F Pa	rticle size ar	nd count per
	unit volume. 10u	/			
	Type of pipe required:				
	Galvanized		Copper	X (For Water)	
	Stainless Steel	^*		For Chemicals	
	Is floor drain required		Yes	y No	
	Diameter of drain.		Gatvanizer	X No I drain 14% Si	licon Iron
			Glass drai	in	
	Plastic drain				
_	a Command Admin		·\		
D.	Compressed Air: Diameter of connectors	a los The	Through of co	onnectors Sci	rewed
	Diameter of connectors _	1/2" 1PS		? Vee	, 0404
_	PSI 25 Max		Oil froo?	Yes (Instrum	ent Air)
2	G CFM 5	· ·	Olf liee:	162 (111201 0111	5110 .017
Ε.	Vacuum:				
Ľı•	Is vacuum required?		Yes	No X	
		port.	PSTA or	No(inc	hes) (milli-
	Vacuum required			( 2.220	, , , – –
	meters)of Hq		CFM		
	Displacement		OFFI	<u> </u>	

#### IV. REMARKS

In the event additional space is required for environmental conditions or utilities not mentioned above, use the reverse side of this form.